



Department of Health

ANDREW M. CUOMO
Governor

HOWARD A. ZUCKER, M.D., J.D.
Commissioner

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Executive Deputy Commissioner

September 21, 2016

LAB ID: 11642
MR. DAVID REPPERT
USGS NATIONAL WATER QUALITY LABORATORY
PO BOX 25585
DENVER, CO 80225-0585

Dear Mr. Reppert:

Your laboratory's scores for the NYSDOH Non-Potable Water/Solid & Chemical Materials/Air & Emissions Chemistry Proficiency Test are enclosed.

The NYSDOH Environmental PT Program validates the fitness for use of each sample/analyte used in its PT studies. After the study close date samples/analytes are evaluated again for stability in conjunction with historic pass/fail rates. The evaluation procedures used to establish the assigned value are discussed in the ELAP Certification Manual Item 300. Metrological traceability and measurement uncertainty for value assignment is established using a Type B approach as described in the U.S. Guide to the Expression of Uncertainty in Measurement (ANSI/NCSL Z540-2-1997).

The assigned value is the 'made to' value for the analyte. The mean for scoring is either the predicted mean from the FoPT Tables or the participant consensus mean. The acceptance limits are centered on the mean for scoring and calculated as plus/minus three times the standard deviation or the fixed percentage, as denoted using the % symbol, stated in the report. In some cases, the acceptance limits are manually adjusted to conform with the FoPT table footnotes 4 through 6. In these cases, the standard deviation cannot be used to set the acceptance limits.

From the sample reporting instructions, step 3, provided in the sample shipment package(s); participants are reminded to use the appropriate FoPT PTRLs for "Less Than" reporting of non detects and detections below the PTRL.

The NYSDOH Environmental PT Program does not limit the usage of proficiency test reports by individuals or organizations. The NYSDOH Environmental PT Program only distributes PT reports to the participant and any organization selected by the participant for distribution.

The statistical procedures used to establish study means, standard deviations and acceptance limits are described in the ELAP Certification Manual Item 330. Summary statistics by method, as well as, assigned value uncertainties may be requested by contacting the NYSDOH Environmental PT Program. Also, please provide us with your feedback on any issues related to the PT Program, including the current study. Direct any comments, requests, feedback, or questions to us at dehspt@health.ny.gov.

Sincerely,

A handwritten signature in black ink that reads "Dan Dickinson". The signature is written in a cursive, flowing style.

Dan Dickinson, PT Program Coordinator
Division of Environmental Health Sciences
NYS DOH - Wadsworth Center
PO BOX 509, Albany NY 12201-0509
Phone: (518) 473-7925, Fax: (518) 473-8117

**WADSWORTH CENTER
NEW YORK STATE DEPARTMENT OF HEALTH**

New York ELAP Proficiency Test Report

Lab Id: 11642 USGS NATIONAL WATER QUALITY LABORATORY
 PO BOX 25585
 EPA Lab Code: DENVER, CO 80225-0585
 CO00009 (303) 236-2000
 Director: MR. DAVID REPPERT

Shipment Date : 19-Jul-2016
 Closing Date : 01-Sep-2016
 Score Date : 20-Sep-2016

NYSDOH Wadsworth Center is an A2LA accredited Proficiency Testing Provider. Certificate Number 1785.01

Shipment: 395 Non Potable Water Chemistry

Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Color									
Color	Color Units	9556	USGS		63	52.9	4.47	39.0 - 66.0	Satisfactory
Analyte Code: 1605			I-1250-85		8/1/16	55.2		30 passed out of 33 reported results.	
Sample: Non Potable Water Demand									
Organic Carbon, Total	mg/L	9501	SM		66.4	72.2	3.79	60.9 - 83.6	Satisfactory
Analyte Code: 2040			5310B-00,-11		9/1/16	72.6		31 passed out of 33 reported results.	
Sample: Non Potable Water Mercury, Low Level									
Low Level Mercury	ng/L	9558	USGS		55.9	57.8	5.09	42.5 - 73.0	Satisfactory
Analyte Code: 1095			I-4464-01		8/15/16	58.1		7 passed out of 7 reported results.	
Sample: Non Potable Water Inorganic Nutrients									
Ammonia (as N)	mg/L	9507	USGS		2.53	2.67	0.245	1.93 - 3.40	Satisfactory
Analyte Code: 1515			I-2522-90		8/2/16	2.63		71 passed out of 75 reported results.	
Nitrate-nitrite (as N)	mg/L	9507	USGS		2.90	2.91	0.189	2.34 - 3.47	Satisfactory
Analyte Code: 1820			I-2547-11		8/4/16	2.92		18 passed out of 18 reported results.	
Orthophosphate (as P)	mg/L	9507	USGS		3.93	3.79	0.194	3.24 - 4.38	Satisfactory
Analyte Code: 1870			I-2601-90		8/2/16	3.81	15%	61 passed out of 62 reported results.	

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Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Surfactants									
Surfactants (as MBAS)	mg/L	9543	USGS		0.39	0.351	0.0501	.20 - 0.501	Satisfactory
Analyte Code: 2025			O-3128-95		8/2/16	0.343		21 passed out of 22 reported results.	
Sample: Non Potable Water Metals I and II									
Silver, Total	ug/L	9511A	USGS		913	911	43.2	775 - 1050	Satisfactory
Analyte Code: 1150			I-4472-97		8/9/16	912	15%	72 passed out of 74 reported results.	
Silver, Total	ug/L	9511A	USGS		883	911	43.2	775 - 1050	Satisfactory
Analyte Code: 1150			I-4471-97		8/12/16	912	15%	72 passed out of 74 reported results.	
Aluminum, Total	ug/L	9511A	USGS		850	847	51.3	692 - 1000	Satisfactory
Analyte Code: 1000			I-4471-97		8/12/16	852		50 passed out of 51 reported results.	
Aluminum, Total	ug/L	9511A	USGS		833	847	51.3	692 - 1000	Satisfactory
Analyte Code: 1000			I-4472-97		8/9/16	852		50 passed out of 51 reported results.	
Arsenic, Total	ug/L	9511A	USGS		150	150	11.5	115 - 185	Satisfactory
Analyte Code: 1010			I-4020-05		8/9/16	150		72 passed out of 74 reported results.	
Barium, Total	ug/L	9511A	USGS		1250	1290	58.5	1090 - 1470	Satisfactory
Analyte Code: 1015			I-4471-97		8/15/16	1280	15%	59 passed out of 59 reported results.	
Barium, Total	ug/L	9511A	USGS		1330	1290	58.5	1090 - 1470	Satisfactory
Analyte Code: 1015			I-4472-97		8/9/16	1280	15%	59 passed out of 59 reported results.	
Beryllium, Total	ug/L	9511A	USGS		91.6	98.5	4.93	85.0 - 115	Satisfactory
Analyte Code: 1020			I-4472-97		8/9/16	100	15%	57 passed out of 59 reported results.	

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Shipment: 395 Non Potable Water Chemistry

Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Metals I and II									
Beryllium, Total	ug/L	9511AUSGS			95.7	98.5	4.93	85.0 - 115	Satisfactory
Analyte Code: 1020		I-4471-97			8/12/16	100	15%	57 passed out of 59 reported results.	
Boron, Total	ug/L	9511AUSGS			1770	1800	82.6	1530 - 2070	Satisfactory
Analyte Code: 1025		I-4471-97			8/15/16	1800	15%	28 passed out of 28 reported results.	
Boron, Total	ug/L	9511AUSGS			1770	1800	82.6	1530 - 2070	Satisfactory
Analyte Code: 1025		I-4472-97			8/9/16	1800	15%	28 passed out of 28 reported results.	
Cadmium, Total	ug/L	9511AUSGS			496	494	24.9	424 - 574	Satisfactory
Analyte Code: 1030		I-4472-97			8/9/16	499	15%	79 passed out of 79 reported results.	
Cadmium, Total	ug/L	9511AUSGS			477	494	24.9	424 - 574	Satisfactory
Analyte Code: 1030		I-4471-97			8/12/16	499	15%	79 passed out of 79 reported results.	
Cobalt, Total	ug/L	9511AUSGS			170	176	10.9	149 - 201	Satisfactory
Analyte Code: 1050		I-4471-97			8/12/16	175	15%	46 passed out of 50 reported results.	
Cobalt, Total	ug/L	9511AUSGS			172	176	10.9	149 - 201	Satisfactory
Analyte Code: 1050		I-4020-05			8/9/16	175	15%	46 passed out of 50 reported results.	
Chromium, Total	ug/L	9511AUSGS			608	622	27.7	530 - 718	Satisfactory
Analyte Code: 1040		I-4020-05			8/9/16	624	15%	69 passed out of 71 reported results.	
Copper, Total	ug/L	9511AUSGS			246	250	14.1	213 - 288	Satisfactory
Analyte Code: 1055		I-4471-97			8/12/16	250	15%	74 passed out of 75 reported results.	
Copper, Total	ug/L	9511AUSGS			245	250	14.1	213 - 288	Satisfactory
Analyte Code: 1055		I-4020-05			8/9/16	250	15%	74 passed out of 75 reported results.	

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Shipment: 395 Non Potable Water Chemistry

Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Metals I and II									
Iron, Total	ug/L	9511AUSGS			2580	2540	107	2150 - 2910	Satisfactory
Analyte Code: 1070		I-4471-97			8/12/16	2530	15%	51 passed out of 52 reported results.	
Manganese, Total	ug/L	9511AUSGS			226	227	12	191 - 259	Satisfactory
Analyte Code: 1090		I-4472-97			8/9/16	225	15%	57 passed out of 59 reported results.	
Manganese, Total	ug/L	9511AUSGS			222	227	12	191 - 259	Satisfactory
Analyte Code: 1090		I-4471-97			8/12/16	225	15%	57 passed out of 59 reported results.	
Nickel, Total	ug/L	9511AUSGS			1060	1080	43.6	952 - 1210	Satisfactory
Analyte Code: 1105		I-4471-97			8/12/16	1080		71 passed out of 74 reported results.	
Nickel, Total	ug/L	9511AUSGS			1050	1080	43.6	952 - 1210	Satisfactory
Analyte Code: 1105		I-4020-05			8/9/16	1080		71 passed out of 74 reported results.	
Lead, Total	ug/L	9511AUSGS			222	227	12.6	191 - 259	Satisfactory
Analyte Code: 1075		I-4472-97			8/9/16	225	15%	81 passed out of 84 reported results.	
Antimony, Total	ug/L	9511AUSGS			806	789	43.9	657 - 921	Satisfactory
Analyte Code: 1005		I-4472-97			8/9/16	801		61 passed out of 61 reported results.	
Selenium, Total	ug/L	9511AUSGS			889	878	56.2	764 - 1030	Satisfactory
Analyte Code: 1140		I-4020-05			8/9/16	899	15%	64 passed out of 66 reported results.	
Strontium, Total	ug/L	9511AUSGS			375	384	13.4	320 - 432	Satisfactory
Analyte Code: 1160		I-4472-97			8/9/16	376	15%	19 passed out of 19 reported results.	
Thallium, Total	ug/L	9511AUSGS			132	128	10.5	96.8 - 160	Satisfactory
Analyte Code: 1165		I-4472-97			8/9/16	130		56 passed out of 59 reported results.	

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Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/ Analysis Date	Mean/ Assigned Value	Standard Deviation/ Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Metals I and II									
Vanadium, Total	ug/L	9511AUSGS			1690	1690	73.3	1450 - 1960	Satisfactory
Analyte Code: 1185		I-4020-05			8/9/16	1700	15%	48 passed out of 48 reported results.	
Vanadium, Total	ug/L	9511AUSGS			1650	1690	73.3	1450 - 1960	Satisfactory
Analyte Code: 1185		I-4471-97			8/12/16	1700	15%	48 passed out of 48 reported results.	
Zinc, Total	ug/L	9511AUSGS			1350	1390	64.6	1190 - 1610	Satisfactory
Analyte Code: 1190		I-4471-97			8/12/16	1400	15%	71 passed out of 71 reported results.	
Zinc, Total	ug/L	9511AUSGS			1390	1390	64.6	1190 - 1610	Satisfactory
Analyte Code: 1190		I-4020-05			8/9/16	1400	15%	71 passed out of 71 reported results.	
Sample: Non Potable Water Metals III									
Molybdenum, Total	ug/L	9511BUSGS			322	331	14.9	286 - 376	Satisfactory
Analyte Code: 1100		I-4472-97			8/9/16	333		49 passed out of 53 reported results.	
Molybdenum, Total	ug/L	9511BUSGS			324	331	14.9	286 - 376	Satisfactory
Analyte Code: 1100		I-4471-97			8/15/16	333		49 passed out of 53 reported results.	
Sample: Non Potable Water Minerals									
Bromide	mg/L	9508 USGS			7.78	7.85	0.404	6.64 - 9.07	Satisfactory
Analyte Code: 1540		I-2057-85			8/2/16	7.83		22 passed out of 24 reported results.	
Chloride	mg/L	9508 USGS			257	252	9.85	223 - 282	Satisfactory
Analyte Code: 1575		I-2057-85			8/10/16	252		66 passed out of 70 reported results.	

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Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Minerals									
Fluoride, Total	mg/L	9508	USGS		0.744	0.705	0.0621	0.518 - 0.891	Satisfactory
Analyte Code: 1730			I-2057-85		8/10/16	0.707		41 passed out of 41 reported results.	
Sulfate (as SO4)	mg/L	9508	USGS		60.7	60.2	3.22	50.5 - 69.8	Satisfactory
Analyte Code: 2000			I-2057-85		8/5/16	61.1		48 passed out of 51 reported results.	
Sample: Non Potable Water Minerals II									
Calcium, Total	mg/L	9537	USGS		90.1	86.2	4.55	74.3 - 101	Satisfactory
Analyte Code: 1035			I-4471-97		8/12/16	87.4	15%	41 passed out of 44 reported results.	
Potassium, Total	mg/L	9537	SM		7.03	7.06	0.626	5.48 - 8.22	Satisfactory
Analyte Code: 1125			3120B-99,-11		8/12/16	6.85	20%	40 passed out of 42 reported results.	
Magnesium, Total	mg/L	9537	USGS		10.0	9.77	0.502	8.36 - 11.3	Satisfactory
Analyte Code: 1085			I-4471-97		8/12/16	9.83	15%	45 passed out of 45 reported results.	
Sodium, Total	mg/L	9537	USGS		25.5	24.3	1.36	19.4 - 29.0	Satisfactory
Analyte Code: 1155			I-4471-97		8/12/16	24.2	20%	44 passed out of 46 reported results.	
Sample: Non Potable Water Nitrite									
Nitrite as N	mg/L	9541	USGS		3.99	3.84	0.17	3.33 - 4.35	Satisfactory
Analyte Code: 1840			I-2540-90		8/2/16	3.84		62 passed out of 66 reported results.	

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Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Acid extractables									
2,4,6-Trichlorophenol Analyte Code: 6840	ug/L	9535	USGS O-3116-87		173 7/29/16	154 195	27.4	72.1 - 237	Satisfactory 32 passed out of 32 reported results.
2,4-Dichlorophenol Analyte Code: 6000	ug/L	9535	USGS O-3116-87		117 7/29/16	100 132	19	43.1 - 157	Satisfactory 32 passed out of 32 reported results.
2,4-Dimethylphenol Analyte Code: 6130	ug/L	9535	USGS O-3116-87		< 11.9 7/29/16	< 11.9			Satisfactory 31 passed out of 32 reported results.
2,4-Dinitrophenol Analyte Code: 6175	ug/L	9535	USGS O-3116-87		55.2 7/29/16	58.8 84.5	22.9	8.45 - 127	Satisfactory 30 passed out of 32 reported results.
2-Chlorophenol Analyte Code: 5800	ug/L	9535	USGS O-3116-87		49.6 7/29/16	42.6 56.4	8.58	16.9 - 68.3	Satisfactory 32 passed out of 32 reported results.
2-Nitrophenol Analyte Code: 6490	ug/L	9535	USGS O-3116-87		82.2 7/29/16	70.5 90.9	14	28.5 - 113	Satisfactory 32 passed out of 32 reported results.
4-Chloro-3-methylphenol Analyte Code: 5700	ug/L	9535	USGS O-3116-87		72.8 7/29/16	60.5 74.9	10.7	28.5 - 92.6	Satisfactory 32 passed out of 32 reported results.
Phenol Analyte Code: 6625	ug/L	9535	USGS O-3116-87		87.1 7/29/16	84.1 150	39	15.0 - 201	Satisfactory 32 passed out of 32 reported results.
Pentachlorophenol Analyte Code: 6605	ug/L	9535	USGS O-4127-96		119 7/29/16	111 132	22.1	44.7 - 177	Satisfactory 31 passed out of 33 reported results.

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Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Base/Neutrals									
1,2,4-Trichlorobenzene	ug/L	9536	USGS		< 2.00				Satisfactory
Analyte Code: 5155			O-3116-87		7/29/16	< 2.00		32 passed out of 33 reported results.	
2,4-Dinitrotoluene	ug/L	9536	USGS		80.4	64.1	10.9	31.4 - 96.9	Satisfactory
Analyte Code: 6185			O-3116-87		7/29/16	77.5		33 passed out of 33 reported results.	
2,6-Dinitrotoluene	ug/L	9536	USGS		91.1	70.2	11.6	35.4 - 105	Satisfactory
Analyte Code: 6190			O-3116-87		7/29/16	87.2		33 passed out of 33 reported results.	
2-Chloronaphthalene	ug/L	9536	USGS		187	140	29.2	52.8 - 228	Satisfactory
Analyte Code: 5795			O-3116-87		7/29/16	194		33 passed out of 33 reported results.	
4-Chlorophenylphenyl ether	ug/L	9536	USGS		147	121	21.9	55.4 - 187	Satisfactory
Analyte Code: 5825			O-3116-87		7/29/16	153		32 passed out of 32 reported results.	
4-Bromophenylphenyl ether	ug/L	9536	USGS		123	106	17.7	52.5 - 159	Satisfactory
Analyte Code: 5660			O-3116-87		7/29/16	127		32 passed out of 32 reported results.	
Acenaphthene	ug/L	9536	USGS		< 4.00				Satisfactory
Analyte Code: 5500			O-3116-87		7/29/16	< 4.00		32 passed out of 33 reported results.	
Anthracene	ug/L	9536	USGS		< 3.9				Satisfactory
Analyte Code: 5555			O-3116-87		7/29/16	< 3.9		31 passed out of 33 reported results.	
Acenaphthylene	ug/L	9536	USGS		< 2.9				Satisfactory
Analyte Code: 5505			O-3116-87		7/29/16	< 2.9		32 passed out of 33 reported results.	
Bis(2-chloroethyl)ether	ug/L	9536	USGS		< 5.9				Satisfactory
Analyte Code: 5765			O-3116-87		7/29/16	< 5.9		31 passed out of 32 reported results.	

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Sample: Non Potable Water Base/Neutrals									
Bis(2-chloroethoxy)methane Analyte Code: 5760	ug/L	9536	USGS O-3116-87		67.3 7/29/16	49.0 63.7	9.16	21.5 - 76.5	Satisfactory 32 passed out of 32 reported results.
2,2'-Oxybis(1-chloropropane) Analyte Code: 4659	ug/L	9536	USGS O-3116-87		< 3.1 7/29/16	< 3.1			Satisfactory 31 passed out of 32 reported results.
Bis(2-ethylhexyl)phthalate Analyte Code: 6065	ug/L	9536	USGS O-3116-87		68.7 7/29/16	48.7 57.2	10	18.6 - 78.8	Satisfactory 34 passed out of 34 reported results.
Benzo(a)anthracene Analyte Code: 5575	ug/L	9536	USGS O-3116-87		170 7/29/16	166 197	23.5	95.2 - 236	Satisfactory 32 passed out of 33 reported results.
Benzo(a)pyrene Analyte Code: 5580	ug/L	9536	USGS O-3116-87		156 7/29/16	159 194	29.2	71.5 - 247	Satisfactory 33 passed out of 33 reported results.
Benzo(b)fluoranthene Analyte Code: 5585	ug/L	9536	USGS O-3116-87		76.1 7/29/16	67.0 80.3	12.1	30.6 - 103	Satisfactory 33 passed out of 33 reported results.
Benzo(g,h,i)perylene Analyte Code: 5590	ug/L	9536	USGS O-3116-87		94.1 7/29/16	88.3 105	16.4	39.2 - 137	Satisfactory 33 passed out of 33 reported results.
Benzo(k)fluoranthene Analyte Code: 5600	ug/L	9536	USGS O-3116-87		31.2 7/29/16	25.6 28.7	6.47	6.19 - 45.0	Satisfactory 32 passed out of 33 reported results.
Benzyl butyl phthalate Analyte Code: 5670	ug/L	9536	USGS O-3116-87		166 7/29/16	141 169	30.1	51.1 - 232	Satisfactory 34 passed out of 34 reported results.
Chrysene Analyte Code: 5855	ug/L	9536	USGS O-3116-87		169 7/29/16	155 187	25.5	78.9 - 232	Satisfactory 32 passed out of 33 reported results.

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 CO00009 (303) 236-2000
 Director: MR. DAVID REPPERT

Shipment Date : 19-Jul-2016
 Closing Date : 01-Sep-2016
 Score Date : 20-Sep-2016

NYSDOH Wadsworth Center is an A2LA accredited Proficiency Testing Provider. Certificate Number 1785.01

Shipment: 395 Non Potable Water Chemistry

Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Base/Neutrals									
Dibenzo(a,h)anthracene Analyte Code: 5895	ug/L	9536	USGS O-3116-87		50.1 7/29/16	47.1 55.4	9.17	19.6 - 74.6	Satisfactory 33 passed out of 33 reported results.
Di-n-butyl phthalate Analyte Code: 5925	ug/L	9536	USGS O-3116-87		99.2 7/29/16	85.4 103	16.2	36.8 - 134	Satisfactory 34 passed out of 34 reported results.
Diethyl phthalate Analyte Code: 6070	ug/L	9536	USGS O-3116-87		133 7/29/16	113 146	28.4	27.6 - 198	Satisfactory 32 passed out of 34 reported results.
Dimethyl phthalate Analyte Code: 6135	ug/L	9536	USGS O-3116-87		102 7/29/16	76.0 113	29.3	11.3 - 164	Satisfactory 31 passed out of 34 reported results.
Di-n-octyl phthalate Analyte Code: 6200	ug/L	9536	USGS O-3116-87		< 8.2 7/29/16	< 8.2			Satisfactory 33 passed out of 34 reported results.
Fluoranthene Analyte Code: 6265	ug/L	9536	USGS O-3116-87		< 15.6 7/29/16	< 15.6			Satisfactory 31 passed out of 33 reported results.
Fluorene Analyte Code: 6270	ug/L	9536	USGS O-3116-87		< 4.80 7/29/16	< 4.8			Satisfactory 32 passed out of 33 reported results.
Hexachlorobenzene Analyte Code: 6275	ug/L	9536	USGS O-3116-87		57.3 7/29/16	50.5 61.3	7.72	27.3 - 73.7	Satisfactory 35 passed out of 36 reported results.
Hexachlorobutadiene Analyte Code: 4835	ug/L	9536	USGS O-3116-87		66.0 7/29/16	46.9 70.4	13.3	7.06 - 86.8	Satisfactory 34 passed out of 34 reported results.
Hexachloroethane Analyte Code: 4840	ug/L	9536	USGS O-3116-87		65.7 7/29/16	42.4 71.7	12.3	7.17 - 79.3	Satisfactory 33 passed out of 33 reported results.

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Shipment: 395 Non Potable Water Chemistry

Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Base/Neutrals									
Indeno(1,2,3-c,d)pyrene Analyte Code: 6315	ug/L	9536	USGS O-3116-87		65.0 7/29/16	57.6 73.9	12	21.6 - 93.6	Satisfactory 33 passed out of 33 reported results.
Isophorone Analyte Code: 6320	ug/L	9536	USGS O-3116-87		168 7/29/16	137 171	24.9	62.6 - 212	Satisfactory 32 passed out of 32 reported results.
Naphthalene Analyte Code: 5005	ug/L	9536	USGS O-3116-87		106 7/29/16	73.7 104	16.3	24.9 - 123	Satisfactory 32 passed out of 33 reported results.
Nitrobenzene Analyte Code: 5015	ug/L	9536	USGS O-3116-87		65.1 7/29/16	47.8 62.7	9.16	20.3 - 75.3	Satisfactory 32 passed out of 33 reported results.
N-Nitrosodimethylamine Analyte Code: 6530	ug/L	9536	USGS O-3116-87		114 7/29/16	85.7 168	31.8	16.8 - 185	Satisfactory 29 passed out of 31 reported results.
N-Nitrosodiphenylamine Analyte Code: 6535	ug/L	9536	USGS O-3116-87		122 7/29/16	114 147	29.7	25.4 - 204	Satisfactory 32 passed out of 32 reported results.
N-Nitrosodi-n-propylamine Analyte Code: 6545	ug/L	9536	USGS O-3116-87		< 9.40 7/29/16	< 9.4			Satisfactory 31 passed out of 32 reported results.
Phenanthrene Analyte Code: 6615	ug/L	9536	USGS O-3116-87		143 7/29/16	124 151	17.7	70.6 - 177	Satisfactory 31 passed out of 33 reported results.
Pyrene Analyte Code: 6665	ug/L	9536	USGS O-3116-87		159 7/29/16	146 171	25.5	69.4 - 223	Satisfactory 32 passed out of 33 reported results.

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Shipment: 395 Non Potable Water Chemistry

Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Organic Nutrients									
Kjeldahl Nitrogen, Total Analyte Code: 1790	mg/L	9504	USGS I-4515-91		26.6 8/5/16	24.2 24.7	1.87	18.6 - 29.8	Satisfactory <i>54 passed out of 57 reported results.</i>
Phosphorus, Total Analyte Code: 1910	mg/L	9504	EPA 365.1 Rev. 2.0		5.55 8/2/16	5.23 5.26	0.292	4.36 - 6.11	Satisfactory <i>61 passed out of 66 reported results.</i>
Phosphorus, Total Analyte Code: 1910	mg/L	9504	USGS I-4610-91		5.31 8/11/16	5.23 5.26	0.292	4.36 - 6.11	Satisfactory <i>61 passed out of 66 reported results.</i>
Sample: Non Potable Water Chlorinated Hydrocarbon Pesticides									
4,4-DDE Analyte Code: 7360	ug/L	9517	USGS O-1126-95		5.02 8/13/16	5.32 5.97	0.916	2.57 - 8.07	Satisfactory <i>33 passed out of 34 reported results.</i>
alpha-BHC Analyte Code: 7110	ug/L	9517	USGS O-1126-95		10.3 8/13/16	8.53 9.47	1.46	4.15 - 12.9	Satisfactory <i>33 passed out of 34 reported results.</i>
Dieldrin Analyte Code: 7470	ug/L	9517	USGS O-1126-95		1.38 8/13/16	1.75 1.88	0.273	0.928 - 2.57	Satisfactory <i>33 passed out of 34 reported results.</i>
Lindane Analyte Code: 7120	ug/L	9517	USGS O-1126-95		2.54 8/13/16	2.3 2.45	0.393	1.12 - 3.48	Satisfactory <i>34 passed out of 35 reported results.</i>
Sample: Non Potable Water Purgeables									
1,1,1,2-Tetrachloroethane Analyte Code: 5105	ug/L	9513	USGS O-4127-96		< 9.8 8/9/16	< 9.8			Satisfactory <i>24 passed out of 24 reported results.</i>

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Shipment: 395 Non Potable Water Chemistry

Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Purgeables									
1,1,1-Trichloroethane Analyte Code: 5160	ug/L	9513	USGS O-4127-96		16.3 8/9/16	17.2 16.4	1.61 40%	9.84 - 23.0	Satisfactory <i>34 passed out of 36 reported results.</i>
1,1,2,2-Tetrachloroethane Analyte Code: 5110	ug/L	9513	USGS O-4127-96		55.6 8/9/16	62.6 60.8	6.11 35%	39.5 - 82.1	Satisfactory <i>34 passed out of 35 reported results.</i>
1,1,2-Trichloroethane Analyte Code: 5165	ug/L	9513	USGS O-4127-96		74.3 8/9/16	77.2 76.9	5.25 30%	53.8 - 100	Satisfactory <i>35 passed out of 36 reported results.</i>
1,1-Dichloroethane Analyte Code: 4630	ug/L	9513	USGS O-4127-96		107 8/9/16	114 114	14	71.9 - 156	Satisfactory <i>36 passed out of 36 reported results.</i>
1,1-Dichloroethene Analyte Code: 4640	ug/L	9513	USGS O-4127-96		27.4 8/9/16	27.6 26.8	3.93	15.8 - 39.3	Satisfactory <i>34 passed out of 36 reported results.</i>
1,2,3-Trichloropropane Analyte Code: 5180	ug/L	9513	USGS O-4127-96		90.5 8/9/16	96.7 98.5	17	45.7 - 148	Satisfactory <i>22 passed out of 22 reported results.</i>
1,2,4-Trimethylbenzene Analyte Code: 5210	ug/L	9513	USGS O-4127-96		49.9 8/9/16	57 59.0	5.59 35%	38.4 - 79.7	Satisfactory <i>23 passed out of 23 reported results.</i>
1,2-Dibromo-3-chloropropane Analyte Code: 4570	ug/L	9513	USGS O-4127-96		38.2 8/9/16	43.5 45.4	5.84 40%	27.2 - 63.6	Satisfactory <i>22 passed out of 22 reported results.</i>
1,2-Dichloroethane Analyte Code: 4635	ug/L	9513	USGS O-4127-96		< 10.6 8/9/16	< 10.6			Satisfactory <i>37 passed out of 38 reported results.</i>
1,2-Dichlorobenzene Analyte Code: 4610	ug/L	9513	USGS O-4127-96		35.1 8/9/16	32.9 33.5	3.04 30%	23.5 - 43.6	Satisfactory <i>39 passed out of 39 reported results.</i>

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Shipment: 395 Non Potable Water Chemistry

Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Purgeables									
cis-1,2-Dichloroethene Analyte Code: 4645	ug/L	9513	USGS O-4127-96		< 7.0 8/9/16	< 7.00			Satisfactory <i>30 passed out of 30 reported results.</i>
1,2-Dichloropropane Analyte Code: 4655	ug/L	9513	USGS O-4127-96		21.0 8/9/16	22.1 21.7	1.76 30%	15.2 - 28.2	Satisfactory <i>36 passed out of 36 reported results.</i>
1,2-Dibromoethane Analyte Code: 4585	ug/L	9513	USGS O-4127-96		< 6.5 8/9/16	< 6.5			Satisfactory <i>24 passed out of 24 reported results.</i>
1,3,5-Trimethylbenzene Analyte Code: 5215	ug/L	9513	USGS O-4127-96		35.5 8/9/16	33.4 33.9	3.23 35%	22.0 - 45.8	Satisfactory <i>24 passed out of 24 reported results.</i>
1,3-Dichlorobenzene Analyte Code: 4615	ug/L	9513	USGS O-4127-96		< 7.0 8/9/16	< 7.00			Satisfactory <i>38 passed out of 38 reported results.</i>
1,4-Dichlorobenzene Analyte Code: 4620	ug/L	9513	USGS O-4127-96		73.6 8/9/16	78.9 82.1	6.66 30%	57.5 - 107	Satisfactory <i>38 passed out of 38 reported results.</i>
Acetone Analyte Code: 4315	ug/L	9513	USGS O-4127-96		166 8/9/16	144 159	34	42.4 - 246	Satisfactory <i>19 passed out of 25 reported results.</i>
Benzene Analyte Code: 4375	ug/L	9513	USGS O-4127-96		47.1 8/9/16	45.3 44.2	4.8 30%	30.9 - 57.5	Satisfactory <i>39 passed out of 40 reported results.</i>
Bromodichloromethane Analyte Code: 4395	ug/L	9513	USGS O-4127-96		15.6 8/9/16	14.8 14.5	1.31 40%	8.70 - 20.3	Satisfactory <i>36 passed out of 36 reported results.</i>
Bromoform Analyte Code: 4400	ug/L	9513	USGS O-4127-96		28.4 8/9/16	28.5 29.2	3.02 40%	17.5 - 40.9	Satisfactory <i>35 passed out of 36 reported results.</i>

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Shipment: 395 Non Potable Water Chemistry

Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Purgeables									
cis-1,3-Dichloropropene Analyte Code: 4680	ug/L	9513 USGS	O-4127-96		< 6.5 8/9/16	< 6.5			Satisfactory <i>36 passed out of 36 reported results.</i>
Carbon tetrachloride Analyte Code: 4455	ug/L	9513 USGS	O-4127-96		81.8 8/9/16	80.7 84.2	11	47.6 - 114	Satisfactory <i>36 passed out of 36 reported results.</i>
Bromomethane Analyte Code: 4950	ug/L	9513 USGS	O-4127-96		< 8.0 8/9/16	< 8.00			Satisfactory <i>33 passed out of 35 reported results.</i>
Chloromethane Analyte Code: 4960	ug/L	9513 USGS	O-4127-96		81.7 8/9/16	95.9 82.1	19.8 60%	32.8 - 131	Satisfactory <i>31 passed out of 36 reported results.</i>
Trichlorofluoromethane Analyte Code: 5175	ug/L	9513 USGS	O-4127-96		73.0 8/9/16	81.4 75.9	11.6 60%	30.4 - 121	Satisfactory <i>34 passed out of 36 reported results.</i>
Chlorobenzene Analyte Code: 4475	ug/L	9513 USGS	O-4127-96		27.2 8/9/16	26.1 26.5	2.23 30%	18.6 - 34.5	Satisfactory <i>39 passed out of 39 reported results.</i>
Dibromochloromethane Analyte Code: 4575	ug/L	9513 USGS	O-4127-96		71.5 8/9/16	77.5 78.5	5.97 40%	47.1 - 110	Satisfactory <i>36 passed out of 36 reported results.</i>
Chloroethane Analyte Code: 4485	ug/L	9513 USGS	O-4127-96		30.8 8/9/16	36.7 32.2	7.23 60%	12.9 - 51.5	Satisfactory <i>35 passed out of 36 reported results.</i>
Chloroform Analyte Code: 4505	ug/L	9513 USGS	O-4127-96		70.5 8/9/16	74.6 74.0	9.59 30%	51.8 - 96.2	Satisfactory <i>37 passed out of 37 reported results.</i>
Dibromomethane Analyte Code: 4595	ug/L	9513 USGS	O-4127-96		21.5 8/9/16	22.5 22.3	1.36 35%	14.5 - 30.1	Satisfactory <i>24 passed out of 24 reported results.</i>

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Shipment: 395 Non Potable Water Chemistry

Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Purgeables									
Ethyl benzene	ug/L	9513	USGS		48.1	51.5	5.43	36.7 - 68.1	Satisfactory
Analyte Code: 4765			O-4127-96		8/9/16	52.4	30%	39 passed out of 39 reported results.	
2-Hexanone	ug/L	9513	USGS		82.8	83.1	14.6	39.2 - 127	Satisfactory
Analyte Code: 4860			O-4127-96		8/9/16	83.8		19 passed out of 22 reported results.	
Methylene chloride	ug/L	9513	USGS		72.7	74.6	9.1	44.4 - 104	Satisfactory
Analyte Code: 4975			O-4127-96		8/9/16	74.0	40%	37 passed out of 37 reported results.	
m/p-Xylenes	ug/L	9513	USGS		150	133	18.3	81.0 - 189	Satisfactory
Analyte Code: 5240			O-4127-96		8/9/16	135	40%	18 passed out of 19 reported results.	
Methyl tert-butyl ether (MTBE)	ug/L	9513	USGS		64.6	76.8	8.69	50.7 - 103	Satisfactory
Analyte Code: 5000			O-4127-96		8/9/16	75.4		25 passed out of 25 reported results.	
o-Xylene	ug/L	9513	USGS		143	132	14.4	79.8 - 186	Satisfactory
Analyte Code: 5250			O-4127-96		8/9/16	133	40%	19 passed out of 19 reported results.	
4-Methyl-2-Pentanone (MIBK)	ug/L	9513	USGS		164	169	20.1	109 - 230	Satisfactory
Analyte Code: 4995			O-4127-96		8/9/16	170		23 passed out of 24 reported results.	
Styrene	ug/L	9513	USGS		99.5	85.9	8.62	55.2 - 115	Satisfactory
Analyte Code: 5100			O-4127-96		8/9/16	84.9	35%	27 passed out of 27 reported results.	
trans-1,2-Dichloroethene	ug/L	9513	USGS		< 6.0				Satisfactory
Analyte Code: 4700			O-4127-96		8/9/16	< 6.00		36 passed out of 36 reported results.	
trans-1,3-Dichloropropene	ug/L	9513	USGS		< 6.5				Satisfactory
Analyte Code: 4685			O-4127-96		8/9/16	< 6.5		36 passed out of 36 reported results.	

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Shipment: 395 Non Potable Water Chemistry

Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Purgeables									
Tetrachloroethene Analyte Code: 5115	ug/L	9513	USGS O-4127-96		110 8/9/16	102 109	13.3	62.2 - 142	Satisfactory <i>35 passed out of 36 reported results.</i>
Toluene Analyte Code: 5140	ug/L	9513	USGS O-4127-96		93.7 8/9/16	93.3 93.4	8.82 30%	65.4 - 121	Satisfactory <i>39 passed out of 39 reported results.</i>
Trichloroethene Analyte Code: 5170	ug/L	9513	USGS O-4127-96		< 6.2 8/9/16	< 6.2			Satisfactory <i>34 passed out of 36 reported results.</i>
Total Xylenes Analyte Code: 5260	ug/L	9513	USGS O-4127-96		293 8/9/16	269 267	26.3 40%	160 - 374	Satisfactory <i>38 passed out of 38 reported results.</i>
1,2,4-Trichlorobenzene, Volatile Analyte Code: 5155	ug/L	9513	USGS O-4127-96		90.3 8/9/16	94.9 105	16	46.9 - 143	Satisfactory <i>23 passed out of 23 reported results.</i>
Naphthalene, Volatile Analyte Code: 5005	ug/L	9513	USGS O-4127-96		84.7 8/9/16	91.9 103	14.5	48.4 - 135	Satisfactory <i>25 passed out of 25 reported results.</i>
Vinyl chloride Analyte Code: 5235	ug/L	9513	USGS O-4127-96		52.0 8/9/16	70.8 61.2	15.6 60%	24.5 - 97.9	Satisfactory <i>34 passed out of 36 reported results.</i>
Sample: Non Potable Water Residue									
Solids, Total Analyte Code: 1950	mg/L	9502	USGS I-3750-85		138 8/10/16	144 144	15	99.0 - 189	Satisfactory <i>47 passed out of 52 reported results.</i>

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Analyte Name	Units	Sample ID	Test Method	Prep Method	Result/Analysis Date	Mean/Assigned Value	Standard Deviation/Fixed %	Acceptance Limits	Score
Sample: Non Potable Water Silica									
Silica	mg/L	9557	USGS		94.4	95	4.15	70.8 - 118	Satisfactory
Analyte Code: 1990			I-2700-85		8/5/16	94.4	25%	<i>18 passed out of 19 reported results.</i>	

Sample: Non Potable Water Total Dissolved Solids

Solids, Total Dissolved	mg/L	9540	USGS		569	561	15	505 - 617	Satisfactory
Analyte Code: 1955			I-1750-85		8/10/16	561		<i>52 passed out of 54 reported results.</i>	